



Product Evaluation

WIN2043 | 1215

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-2043

Effective Date: December 1, 2015

Re-evaluation Date: January 2019

Product Name: CA5540 Vinyl Casement Windows, Fin-Mounted and Replacement, Individual, Impact Resistant

Manufacturer: PGT Industries
1070 Technology Drive
North Venice, FL 34275
(941) 486-0100 (Ext. 21142)

General Description:

| System | Description | Label Rating | Design Pressure Rating |
|--------|--|--------------------------------------|------------------------|
| 1 | CA 5540 Vinyl Casement Windows (fin-mounted) with 7/8" nominal insulated glass lites composed of a 3/16" annealed or tempered glass section on the exterior and a 5/16" laminated glass section on the interior; and heavy duty sash rails, hardware and reinforcement (X) | LC-PG65 36 X 84-C Missile Level D | +65 / -70 psf |
| 2 | CA 5540 Vinyl Casement Windows (replacement) with 7/8" nominal insulated glass lites composed of a 3/16" annealed or tempered glass section on the exterior and a 5/16" laminated glass section on the interior; and heavy duty sash rails, hardware and reinforcement (X) | LC-PG65 36 X 84-C Missile Level D | +65 / -70 psf |

General Description (continued):

| System | Description | Label Rating | Design Pressure Rating |
|--------|--|--------------------------------------|------------------------|
| 3 | CA 5540 Vinyl Casement Windows (replacement) with 7/8" nominal insulated glass lites composed of a 1/8" annealed or tempered glass section on the exterior and a 5/16" laminated glass section on the interior; and standard duty sash rails, hardware and reinforcement (X) | LC-PG50 36 X 75-C Missile Level D | +50 / -50 psf |

Product Dimensions:

| System | Overall Size | Operable Daylight Opening Size |
|--------|-------------------|--------------------------------|
| 1 | 38-3/4" x 86-3/4" | 29-3/8" x 77-1/4" |
| 2 | 36" x 84" | 29-3/8" x 77-1/4" |
| 3 | 36" x 75" | 29-3/8" x 68-1/2" |

Product Identification (Certification Label on Window):

| System | | |
|---------|----------------------------------|---|
| 1, 2, 3 | Certification Agency | Keystone Certifications, Inc. |
| | Manufacturer's Name or Code Name | System 1, 2: CAR # 190-1060, 190-501 System 3: CAR # 190-1059, 190-299 |
| | Product Name | Model CA5540 PVC Impact Casement |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-05/ASTM E 1996-12 Missile Level D |

Impact Resistance:

| System | Impact Resistant | Requirement |
|---------|------------------|---|
| 1, 2, 3 | Yes | These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating. |

Installation:

| System | | |
|-------------------|----------------------|--|
| 1 (FIN) | Type of Installation | Wood Frame |
| | Wall Framing | Southern Pine (SPG \geq 0.55) Dimension lumber |
| | Fasteners | Minimum 8d Common Ring-Shank Nails (2-1/2" long, 0.131" diameter) |
| | Fastener Penetration | Minimum 1-7/16" into the wall framing |
| 2, 3 (FINLESS) | Type of Installation | Wood Frame |
| | Wall Framing | Southern Pine (SPG \geq 0.55) Dimension lumber |
| | Fasteners | Minimum No. 10 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws or Minimum No. 12 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws |
| | Fastener Penetration | Minimum 1-1/2" into the wall framing |

Supplemental Installation Instructions:

- **Design Drawing:** Install the windows in accordance with Drawing No. TDI-CA5540.1, titled "Vinyl Casement Window TDI (Impact-Resistant)," sheets 1 through 4 of 4, dated March 19, 2015, signed and sealed by A. Lynn Miller, P.E., on March 19, 2015. This evaluation report refers to the stated drawings as the approved drawings.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.